31971 MB-1469

Sl. No. 0946 Total No. of Pages : 2

III Semester M.Sc. (SLP) Examination, April - 2023
(Scheme : CBCS)
SPEECH-LANGUAGE PATHOLOGY
Aphasia

Time : 2 Hours **Max. Marks : 50**

Instructions : *1) Answer all questions.*

2) Support your answers with empirical research findings.

I. 1. Explain the linguistic, extra-linguistic, non-linguistic deficits and the salient diagnostic features of persons with primary progressive aphasia. **[10]**

OR

2. Explain the different factors accounting for the variability of classification of aphasic syndromes. **[10]**

II. 3. Explain the functional architecture model of Lexical System for the semantic deficits in persons with aphasia. **[15]**

OR

4. Taking basis from Garrett's model, explain the phenomena of agrammatism in persons with aphasia. **[15]**

III. 5. How do the following tools contribute in better understanding aphasia? **[3 × 5 = 15]**

a) EEG

b) Evoked potentials

c) MRI

OR

6. Explain the biochemical and physiological mechanisms of recovery in aphasia. **[15]**

P.T.O.

IV. 7. Explain the philosophy, rationale, candidacy and steps involved in Thematic Language stimulation approach in the treatment of persons with aphasia. **[10]**

OR

8. Explain the role of technology in the treatment of persons with aphasia highlighting the pros and cons. **[10]**

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31972 MB-1470

Sl. No. 0046 Total No. of Pages : 2

III Semester M.Sc. Examination, April - 2023

(Scheme: CBCS)

SPEECH - LANGUAGE PATHOLOGY

Voice and its Disorders

Time : 2 Hours **Max. Marks : 50**

Instruction : ***Answer all questions.***

I. 1. Describe the effects of the following on voice. **[10]**

a) Harmones.

b) Genetics.

OR

2. Discuss any two models that describe the vocal folds vibration with justification for your choices. **[10]**

II. 3. Explain the signs, symptoms and acoustic signs of the following : **[3 × 5 = 15]**

a) Laryngopharyngeal Reflux

b) Vocal fold polyp

c) Sulcus vocalis

OR

4. Describe the differential diagnostic features in the following : **[3 × 5 = 15]**

a) Bilateral adduction palsy

b) Contact ulcers

c) Vocal fold nodules.

P.T.O.

III. 5. Describe the utility of the following measures in voice assessment. **[3 × 5 = 15]**

a) S/Z ratio.

b) Perturbation and noise measures

c) Electroglottography

OR

6. Highlight the importance of the following in diagnosing voice disorders. **[3 × 5 = 15]**

a) Video endo stroboscopy.

b) GRBAs and VHI.

c) Frequency and amplitude measures.

IV. 7. Compare and contrast the following with suitable examples. **[10]**

a) Symptomatic voice therapy.

b) Physiologic voice therapy approaches.

OR

8. Describe any two voice therapy techniques of your choice for management of voice problems in geriatric individual and an individual with conversion with disorder. **[10]**

31973 MB-1471

Sl. No. 0003 Total No. of Pages : 2

III Semester II Year M.Sc. (SLP) Examination, April - 2023

(Scheme: CBCS)

SPEECH - LANGUAGE PATHOLOGY

Speech and Language Processing

Time : 2 Hours **Max. Marks : 50**

Instruction : ***Answer all the questions.***

I. 1. a) Briefly explain basic issues in speech perception. **[5]**

b) Explain the Gestalt principles of perceptual grouping. **[5]**

OR

2. Explain TRACE Model of speech perception. **[10]**

II. 3. Write a note on categorical perception. **[15]**

OR

4. Explain the different acoustic cues for perception of stop consonants. **[15]**

III. 5. Write a note on following methods in spoken word recognition.

a) Cross Model prining. **[5]**

b) Continuous speech. **[5]**

c) Lexical decision. **[5]**

OR

6. Describe any two models in spoken word recognition. **[15]**

P.T.O.

IV. 7. Explain in detail methods/techniques used for sentence comprehension research. **[10]**

OR

8. Write in detail on the perception of cleft plate speech and laryngectonized speech by typical individuals. **[10]**

31975 MB-1472

Sl. No. 0047 Total No. of Pages : 2

III Semester M.Sc. (SLP) Examination, April - 2023

(Scheme: CBCS)

SPEECH - LANGUAGE PATHOLOGY

Dysphagia

Time : 2 Hours **Max. Marks : 50**

Instruction : ***Answer all the questions.***

I. 1. Elaborate on the in-utero changes in the foetal growth that facilitates the development of typical feeding patterns. **[10]**

OR

2. a) Explain the concept of presbyphagia. How would you differentiate it from dysphagia? **[5]**

b) Describe the two stage model of swallow with supporting evidences. **[5]**

II. 3. Explain the difficulties seen across various stages of swallow in children with Down's syndrome and Moebius syndrome. **[10]**

OR

4. a) Explain how burn injuries can lead to dysphagia. **[5]**

b) Describe the swallow difficulties seen in **[5]**

i) Cricopharyngeal bar

ii) Esophageal rings

III. 5. a) Describe the tests standardized in the Indian context to assess dysphagia in adults. **[10]**

b) Describe the oral reflexes to be tested during neonatal dysphagia assessment and its significance. **[5]**

P.T.O.

OR

6. a) Oromotor assessment is an important component of clinical swallow examination. Justify. **[5]**

b) Write a note on cervical auscultation. Explain its utility in dysphagia assessment. **[5]**

c) Explain the utility of surface electromyography in the assessment of swallow. **[5]**

IV. 7. a) Mr.S. reported with a history of left vocal fold palsy and a difficulty in swallowing solids & liquids since a month. A FEES evaluation revealed severe pooling in the left vallecula and pyriform sinus with aspiration. Describe the compensatory and facilitatory strategies that can be used to improve swallow function of Mr.S. **[10]**

b) Explain the techniques and strategies that can be used to improve masticatory performance in children with cerebral palsy. **[5]**

OR

8. Write a note on the following : **[15]**

a) IDDSI and its significance.

b) Prosthetic management in oral dysphagia.

c) Management of trismus.

31977 MB-1474

Sl.No. 0001 Total No. of Pages : 2

III Semester II Year M.Sc. (SLP) Examination, April - 2023
(Scheme : CBCS)
EVENT RELATED TO POTENTIALS IN SPEECH AND LANGUAGE
Speech-Language Pathology

Time : 2 Hours **Max. Marks : 50**

Instruction : ***Answer all the questions.***

I. 1) Explain the classification of evoked potentials. **[10]**

OR

2) What are the different techniques used in the recording of evoked potentials? **[10]**

II. 3) What are the different recording ad stimulus variables affecting LLR recording? **[15]**

OR

4) a) Discuss the applications of LLR in speech and language research. **[10]**

b) Write briefly about the subject related variables that influence the LLR recordings. **[5]**

III. 5) Explain about the recording, variables affecting and implications of MMN P300 potentials. **[15]**

OR

6) Write briefly about the variables affecting the following **[15]**

a) CNV

b) E-LAN

P.T.O.

IV. 7) Discuss about the various advanced analysis techniques used in the endogenous potentials. **[10]**

OR

8) Explain about the applications of evoked potentials in the following.

a) Learning disability **[5]**

b) Stuttering **[5]**

31905/31927 MB-1915

Sl.No. 0004 Total No. of Pages : 2

III Semester M.Sc. (SLP) Examination, April - 2023

(Scheme : CBCS)

AUDIOLOGY

Technology for Speech, Language and Hearing

Time : 2 Hours **Max. Marks : 50**

Instruction: Answer all questions.

I. **1.** a) Which type of microphone is used in hearing aids? State and explain the significant characteristics of this microphone? **[5]**

b) Explain the technology of the receivers used in behind the ear hearing aids. **[5]**

OR

2. a) Which are the three classes into which electrical equipments are classified according to the method of protection against electrical shock? Explain the features of each class. **[5]**

b) Which are the two types of earthing system? Which earthing system is preferred for a BERA equipment? **[5]**

II. **3.** a) Explain the criteria with which you decide the number of samples and number of amplitude levels while converting a speech signal to a digital signal. How these parameters influence the closeness of the digital signal to the original speech signal? **[5]**

b) Which type of decomposition is suitable for digital signal processing of speech signal? Why? **[5]**

OR

4. a) State and explain the tasks performed by operating system in the functioning of a computer. **[5]**

b) Which type of modulation is used in hearing aid systems used for listening in classroom of children with hearing impairment? Why? **[5]**

P.T.O.

III. 5. a) How is the source filter model of speech production utilized in linear predictive coding? [5]

b) Explain how 'Short time energy' helps in deciding whether a speech sample is voiced/unvoiced/silent. [5]

c) With a diagram explain the basic principle of a speaker recognition system. [5]

OR

6. a) How does the HiRes 120 strategy differ from Fine Structure Processing (FSP) strategy in cochlear implants? [5]

b) With a block diagram, illustrate how a two Channel Wide Dynamic range compression is implemented in digital hearing aids. [5]

c) How is noise control achieved in hearing aids using two port directional microphone? [5]

IV. 7. a) With a diagram of the equipment set up, explain the procedure for measuring reverberation time in an audiometric test room. [5]

b) How does a C-arm overcome the limitations of conventional X-ray imaging? [5]

c) Explain the basic principle of magnetic resonance imaging (MRI). [5]

OR

8. a) With a functional block diagram explain the working principle of Transient Evoked oto-acoustic emission (TEOAE) analyzer. [5]

b) Explain the mechanism with which tone burst and click stimuli are generated in a BERA instrument. [5]

c) How does an electromagnetic articulograph trace the movement of articulators during speech production? [5]

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